



Sanitary Sewer Overflows and Sewer System Maintenance

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Appendix A: CHAMPS Manual

Appendix B: Examples of Data

Appendix C: SAS Outputs

Appendix D: Figures

Figure 1: CMU Average Age of Sewer Map

Figure 2: Flow vs. Groundwater

Figure 3: SSO Frequency

**Figure 4: SSO Frequency, Observed vs. Estimated
(Stage 2)**

Figure 5: Flow Impact

Figure 6: Seasonal Impact

Figure 7: Pro-active Maintenance Impact